## **EAST Search History**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	5923	hepatocyte adj growth adj factor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/05/21 15:08
L3	7664	L2 or HGF	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/05/21 15:09
L4	279769	antibody or immunoglobulin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/05/21 15:09
L5	6083	L4 and L3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/05/21 15:10
L6	3862	neutral\$5 and L5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/05/21 15:22
L7	448	H61	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/05/21 15:22
L8	177	H68	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/05/21 15:22
L9	41	L7 and L8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/05/21 15:29

5/21/2007 6:10:34 PM Page 1

## **EAST Search History**

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L10	1	L6 and L9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/05/21 15:23
L11	584	L7 or L8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/05/21 15:30
L12	11	L11 and L6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/05/21 18:03
L13	62441	chung.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/05/21 18:04
L14	27	L13 and L2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/05/21 18:05
L15	60	L13 and L3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR .	ON	2007/05/21 18:09
L16	3	Hur.in. and L3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/05/21 18:09

5/21/2007 6:10:34 PM Page 2

held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or of this information, without the prior written consent of CAS, is strictly prohibited. FILE COVERS 1907 - 22 May 2007 VOL 146 ISS 22 FILE LAST UPDATED: 21 May 2007 (20070521/ED) Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at: http://www.cas.org/infopolicy.html => s hepatocyte (s) growth (s) factor 48807 HEPATOCYTE 43922 HEPATOCYTES 63555 HEPATOCYTE (HEPATOCYTE OR HEPATOCYTES) 1347081 GROWTH 4495 GROWTHS 1349368 GROWTH (GROWTH OR GROWTHS) 1039109 FACTOR 939318 FACTORS 1637928 FACTOR (FACTOR OR FACTORS) L1 8771 HEPATOCYTE (S) GROWTH (S) FACTOR => s HGF 5273 HGF 202 HGFS L25375 HGF (HGF OR HGFS)

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L5 4 L3 AND L4

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L5 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:104586 CAPLUS

DOCUMENT NUMBER: 146:309794

TITLE: A neutralizable epitope is induced

on HGF upon its interaction with its

receptor cMet

AUTHOR(S): Kim, Kisu; Hur, Youngmi; Ryu, En-Kyung; Rhim,

Jung-Hyo; Choi, Cha Yong; Baek, Cheol-Min;

Lee,

Jae-Ho; Chung, Junho

CORPORATE SOURCE:

Cancer Research Institute, Seoul National

University

College of Medicine, Seoul, S. Korea

SOURCE:

Biochemical and Biophysical Research

Communications

(2007), 354(1), 115-121

CODEN: BBRCA9; ISSN: 0006-291X

PUBLISHER:
DOCUMENT TYPE:

Elsevier Journal

LANGUAGE:

English

AB A new conformational neutralizable epitope is created on hepatocyte growth factor (HGF),

when it interacts with its receptor, cMet. By immunizing rabbits with

HGF-cMet complex, we successfully generated a monoclonal antibody (SFN68) that inhibits HGF-cMet interaction, and blocks the biol. function mediated by HGF. To define the epitope, we screened out an epitope-mimicking peptide, KSLSRHDHIHHH, from a phage

out an epitope-mimicking peptide, KSLSRHDHIHHH, from a phage display of

combinatorial peptide library. In mol. mimicry this peptide bound to cMet

and inhibited HGF-cMet interaction. No humoral response was induced to this epitope-mimicking peptide when immunization was done with

**HGF** alone.

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES

AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE

RE FORMAT

=> d 2-4 ibib abs

L5 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:94360 CAPLUS

DOCUMENT NUMBER: 144:169296

TITLE: Fully Human Monoclonal Antibodies to

Hepatocyte Growth Factor

with Therapeutic Potential against Hepatocyte

Growth Factor/c-Met-Dependent Human

Tumors

AUTHOR(S): Burgess, Teresa; Coxon, Angela; Meyer,

Susanne; Sun,

Jan; Rex, Karen; Tsuruda, Trace; Chen, Qing;

Ho,

Shu-Yin; Li, Luke; Kaufman, Stephen;

McDorman, Kevin;

Cattley, Russell C.; Sun, Jilin; Elliott,

Gary; Zhang,

Ke; Feng, Xiao; Jia, Xiao-Chi; Green, Larry;

Radinsky,

Robert; Kendall, Richard

CORPORATE SOURCE:

Department of Oncology Research, Amgen,

Inc., Thousand

Oaks, CA, USA

SOURCE: Cancer Research (2006), 66(3), 1721-1729

CODEN: CNREA8; ISSN: 0008-5472

PUBLISHER:

American Association for Cancer Research

DOCUMENT TYPE:

Journal

LANGUAGE: English

AB C-Met is a well-characterized receptor tyrosine kinase for hepatocyte growth factor (HGF).

Compelling evidence from studies in human tumors and both cellular and

animal tumor models indicates that signaling through the HGF /c-Met pathway mediates a plethora of normal cellular activities, including proliferation, survival, migration, and invasion, that are at

the root of cancer cell dysregulation, tumorigenesis, and tumor metastasis. Inhibiting HGF-mediated signaling may provide a novel therapeutic approach for treating patients with a broad spectrum of

human tumors. Toward this goal, we generated and characterized five

different fully human monoclonal antibodies that bound to and neutralized

human HGF. Antibodies with subnanomolar affinities for HGF blocked binding of human HGF to c-Met and inhibited HGF-mediated c-Met phosphorylation, cell proliferation, survival, and invasion. Using a series of human-mouse chimeric HGF proteins, we showed that the neutralizing antibodies bind to a unique epitope in the  $\zeta$ -chain of human HGF.

Importantly, these antibodies inhibited HGF-dependent autocrine-driven tumor growth and caused significant regression of

established U-87 MG tumor xenografts. Treatment with anti-HGF antibody rapidly inhibited tumor cell proliferation and significantly

increased the proportion of apoptotic U-87 MG tumor cells in vivo. These

results suggest that an antibody to an epitope in the {szligbeta}-chain of

**HGF** has potential as a novel therapeutic agent for treating patients with **HGF**-dependent tumors.

REFERENCE COUNT:

37 THERE ARE 37 CITED REFERENCES

AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE

## RE FORMAT

L5 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2005:429434 CAPLUS

DOCUMENT NUMBER:

142:480775

TITLE:

Neutralizing antibody to hepatocyte

growth factor

INVENTOR(S):

Chung, Junho; Hur, Youngmi

PATENT ASSIGNEE(S):

National Cancer Center, S. Korea

SOURCE:

PCT Int. Appl., 48 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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KR 2005045419 A 20050517 KR 2003-79482

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AU 2004287743 A1 20050519 AU 2004-287743

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EP 1694700 A1 20060830 EP 2004-800068

20041109

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MC, PT,

IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS

CN 1878790 A 20061213 CN 2004-80033164

20041109

US 2007036789 A1 20070215 US 2006-578836

20060510

IN 2006DN03385 A 20070504 IN 2006-DN3385

20060612

PRIORITY APPLN. INFO.: KR 2003-79482 A

20031111

WO 2004-KR2888 W

20041109

AB The authors disclose the preparation and characterization of neutralizing

antibodies against human hepatocyte growth

factor (HGF). The antibodies are capable of preventing

**HGF** binding to its receptor and may find utility in treating intractable diseases and cancers.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE

FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE

RE FORMAT

L5 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:471599 CAPLUS

DOCUMENT NUMBER: 135:194201

TITLE: Neutralizing monoclonal antibodies to

hepatocyte growth factor

/scatter factor (HGF/SF) display antitumor activity in animal models

AUTHOR(S): Cao, Brian; Oskarsson, Marianne; Zhao, Ping;

Kort,

Eric J.; Fisher, Robert J.; Wang, Ling-Mei;

Vande

Woude, George F.

CORPORATE SOURCE: Van Andel Research Institute, Grand Rapids,

MI, 49503,

USA

SOURCE: Proceedings of the National Academy of

Sciences of the

United States of America (2001), 98(13),

7443-7448

CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER:

National Academy of Sciences

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB The hepatocyte growth factor (HGF

/SF) receptor, Met, regulates mitogenesis, motility, and morphogenesis in

a cell type-dependent fashion. Activation of Met via autocrine, paracrine, or mutational mechanisms can lead to tumorigenesis and metastasis and numerous studies have linked inappropriate expression of

this ligand-receptor pair to most types of human solid tumors. To prepare

mAbs to human HGF/SF, mice were immunized with native and denatured prepns. of the ligand. Recloned mAbs were tested in vitro for

blocking activity against scattering and branching morphogenesis. Our

results show that no single mAb was capable of neutralizing the in vitro activity of HGF/SF, and that the ligand possesses a min. of three epitopes that must be blocked to prevent Met tyrosine kinase activation. In vivo, the neutralizing mAb combination

inhibited s.c. growth in athymic nu/nu mice of tumors dependent on an

autocrine Met-HGF/SF loop. Importantly, growth of human glioblastoma multiforme xenografts expressing Met and HGF/SF were markedly reduced in the presence of HGF/SF-neutralizing mAbs. These results suggest interrupting autocrine and/or paracrine Met-

HGF/SF signaling in tumors dependent on this pathway is a
possible

intervention strategy.

REFERENCE COUNT:

51

THERE ARE 51 CITED REFERENCES

AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE

RE FORMAT

=> s chung J?/au

L6 3733 CHUNG J?/AU

=> s hur Y?/au

L7 112 HUR Y?/AU

=> s L6 or L7

L8 3840 L6 OR L7

=> s L8 and L3

L9 5 L8 AND L3

=> d 1-5 ibib abs

ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN L<sub>9</sub>

ACCESSION NUMBER: 2007:104586 CAPLUS

146:309794 DOCUMENT NUMBER:

A neutralizable epitope is induced on HGF TITLE:

upon its interaction with its receptor cMet

Kim, Kisu; Hur, Youngmi; Ryu, En-Kyung; AUTHOR(S):

Rhim, Jung-Hyo; Choi, Cha Yong; Baek,

Cheol-Min; Lee,

Jae-Ho; Chung, Junho

CORPORATE SOURCE: Cancer Research Institute, Seoul National

University

College of Medicine, Seoul, S. Korea Biochemical and Biophysical Research

SOURCE: Communications

(2007), 354(1), 115-121

CODEN: BBRCA9; ISSN: 0006-291X

PUBLISHER: Elsevier DOCUMENT TYPE: Journal LANGUAGE: English

AB A new conformational neutralizable epitope is created on

hepatocyte growth factor (HGF), when

it interacts with its receptor, cMet. By immunizing rabbits with HGF-cMet complex, we successfully generated a monoclonal antibody (SFN68) that inhibits HGF-cMet interaction, and blocks the biol. function mediated by HGF. To define the epitope, we screened

out an epitope-mimicking peptide, KSLSRHDHIHHH, from a phage

display of

combinatorial peptide library. In mol. mimicry this peptide bound to cMet

and inhibited HGF-cMet interaction. No humoral response was induced to this epitope-mimicking peptide when immunization was done with

HGF alone.

15 REFERENCE COUNT: THERE ARE 15 CITED REFERENCES

AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE

RE FORMAT

L9ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:379725 CAPLUS

DOCUMENT NUMBER: 145:26137

TITLE: Functional expression of single-chain

variable

fragment antibody against c-Met in the

cytoplasm of

Escherichia coli

Heo, Mi-Ae; Kim, Su-Hyun; Kim, So-Yeon; Kim, AUTHOR(S):

Yu-Jin;

Chung, Junho; Oh, Min-Kyu; Lee, Sun-Gu CORPORATE SOURCE: Department of Chemical and Biochemical

Engineering,

Pusan National University, Pusan, 609-735,

S. Korea SOURCE:

Protein Expression and Purification (2006),

47(1),

203-209

CODEN: PEXPEJ; ISSN: 1046-5928

PUBLISHER:
DOCUMENT TYPE:

Elsevier Journal

LANGUAGE:

English

AB C-Met, a high affinity receptor for hepatocyte growth factor/scatter factor, shown to be overexpressed in a

variety of malignant cells, is a potential biomarker as well as a therapeutic target. Thus, single-chain antibody fragment (scFv) specific

for c-Met is expected to be efficiently employed in the clin. treatment or

imaging of many cancer cells. Here, the authors constructed the expression system for anti-c-Met scFv fused with T7 tag at its N-terminus

using pET vector and investigated the expression conditions to achieve a

functional and soluble expression of the scFv in the cytoplasm of recombinant

Escherichia coli. The redox potential of E. coli cytoplasm was the most

critical factor for the functional expression of anti-c-Met scFv. The

employment of a host with oxidizing cytoplasm, E. coli trxB/gor double

mutant, improved the productivity of functional anti-c-Met  $\operatorname{scFv}$  by approx.

10-fold compared to the production of anti-c-Met scFv in the reducing

cytoplasm of wild type E. coli. Productivity of functional anti-c-Met

scFv could be further enhanced by co-expressing mol. chaperones such as

GroELS, trigger factor, and DsbC with the scFv. Coexpression of DsbC

increased the yield of functional anti-c-Met scFv about 2.5-fold in the

cytoplasm of E. coli trxB/gor mutant compared to the production of scFv

without DsbC coexpression. Lowering the IPTG concentration from 1 to 0.05 mM led  $\,$ 

to the slight enhancement, approx. 1.6-fold, of productivity of functional

scFv. Although the use of low temperature for anti-c-Met scFv expression

increased the ratio of soluble scFv fraction to insol. fraction, productivity

of soluble scFv decreased owing to the significant reduction of expression rate.

The addition of 0.5 M sucrose in the medium inhibited the formation of  $\$ 

intracellular insol. anti-c-Met scFv. To purify the anti-c-Met scFv

simply, the authors fused hexahistidine at the C-terminus of scFv and

purified the scFv showing 98% of purity through the interaction between

Ni2+ and histidine.

REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES

AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE

RE FORMAT

L9 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1278399 CAPLUS

DOCUMENT NUMBER: 144:49795

TITLE: Generation of a rabbit VH domain antibody

polyspecific

to c-Met and adenoviral knob protein

AUTHOR(S): Im, Shin-Young; Kim, Ki Su; Yun, Chae-Ok;

Kim.

Joo-Hang; Yi, Kye-Sook; Chung, Junho

CORPORATE SOURCE: Cancer Research Institute, Seoul National

University

College of Medicine, Seoul, S. Korea

SOURCE: Biochemical and Biophysical Research

Communications

(2006), 339(1), 305-312

CODEN: BBRCA9; ISSN: 0006-291X

PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Several types of bispecific antibodies with affinity to both adenoviral

coat proteins and a targeted antigen have been developed with the aim of

providing the specific delivery of adenoviral gene therapy vehicle. From

a phage display library of combinatorial dAb2s (each with an anti-adenoviral knob protein VH fragment linked with an anti-c-Met VH),

the authors serendipitously enriched and isolated a clone, JS5, that has

polyspecificity such that it binds both the adenoviral knob protein and

c-Met, despite having only one VH domain. The authors' indirect observations suggest that the polyspecificity of JS5 is developed through

accumulation of antibody specificity. The method of sequential immunization of a rabbit, first with the adenoviral knob protein and then

with target antigens, may provide a method by which monoclonal antibodies

with stand-alone polyspecificity may be developed. Such targeted polyspecific antibodies could readily be used for re-directing adenoviral

vectors to target cells.

REFERENCE COUNT:

THERE ARE 29 CITED REFERENCES

AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE

RE FORMAT

ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN L9

ACCESSION NUMBER:

2005:429434 CAPLUS

DOCUMENT NUMBER:

142:480775

TITLE:

Neutralizing antibody to hepatocyte

growth factor

INVENTOR(S):

Chung, Junho; Hur, Youngmi

PATENT ASSIGNEE(S):

National Cancer Center, S. Korea

SOURCE:

PCT Int. Appl., 48 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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AB It has been proposed that a constitutive, phys. association of the Met

receptor and the  $\alpha6\beta4$  integrin exists on the surface of invasive carcinoma cells and that **hepatocyte growth** factor (HGF)-mediated invasion is dependent on

 $\alpha6\beta4.$  The potential significance of these results prompted us to re-examine this hypothesis. Using three different carcinoma cell lines

that express both Met and  $\alpha 6\beta 4$ , we were unable to detect the constitutive association of these receptors by co-immunopptn. Moreover,

carcinoma cells that lacked expression of  $\alpha 6\beta 4$  exhibited Met-dependent invasion toward HGF, and increasing Met expression by viral infection of these cells enhanced invasion without inducing

 $\alpha6\beta4$  expression. Although expression of  $\alpha6\beta4$  in such cells enhanced their invasion to HGF, it also enhanced their ability to invade toward other chemoattractants such as lysophosphatidic acid, and this latter invasion was not inhibited by a

function-blocking Met antibody. Finally, depletion of  $\beta 4$  by RNA interference in invasive carcinoma cells that express both receptors

reduced the ability of these cells to invade toward HGF by .apprx.25%, but it did not abrogate their invasion. These data arque that

the invasive function of Met can be independent of  $\alpha6\beta4$  and that  $\alpha6\beta4$  has a generic influence on the invasion of carcinoma cells that is not specific to Met.

REFERENCE COUNT:

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